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servation of our natural resources, with the view of continued cooperation and action on the lines suggested. And to this end we advise that from time to time, as in his judgment may seem wise, the President call the governors of the states, members of Congress and others into conference.

We agree that further action is advisable to ascertain the present condition of our natural resources and to promote the conservation of the same. And to that end we recommend the appointment by each state of a commission on the conservation of natural resources, to cooperate with each other and with any similar commission on behalf of the federal government.

We urge the continuation and extension of forest policies adapted to secure the husbanding and renewal of our diminishing timber supply, the prevention of soil erosion, the protection of headwaters, and the maintenance of the purity and navigability of our streams. We recognize that the private ownership of forest lands entails responsibilities in the interests of all the people, and we favor the enactment of laws looking to the protection and replacement of privately owned forests.

We recognize in our waters a most valuable asset of the people of the United States, and we recommend the enactment of laws looking to the conservation of water resources for irrigation, water supply, power and navigation, to the end that navigable and source streams may be brought under complete control and fully utilized for every purpose. We especially urge on the federal Congress the immediate adoption of a wise, active and thorough waterway policy, providing for the prompt improvement of our streams and conservation of their watersheds required for the uses of commerce and the protection of the interests of our people.

We recommend the enactment of laws looking to the prevention of waste in the mining and extraction of coal, oil, gas and other minerals with a view to their wise conservation for the use of the people and to the protection of human life in the mines.

Let us conserve the foundations of our prosperity.

SCIENTIFIC NOTES AND NEWS

THE house of representatives concurring with the senate and by a unanimous vote, has granted an annuity for life of \$125 a month to the widows of the late Major James Car-

roll, surgeon, U. S. army, and the late acting assistant surgeon, Jesse W. Lasear, whose lives were sacrificed in the study of yellow fever in Cuba.

PROFESSOR WILLIAM JAMES, who has been giving a course of lectures on philosophy at Oxford University, received there the degree of doctor of science on May 12.

DR. EDWARD S. MORSE has been elected a member of the Astronomical Society of Belgium.

MR. FRANCIS DARWIN, F.R.S., has been nominated the representative of Cambridge University at a meeting convened by the Linnean Society of London, to be held in July in celebration of the fiftieth anniversary of the reading of the joint essay by Charles Darwin and Alfred Russel Wallace "On the Tendency of Species to form Varieties; and on the Perpetuation of Varieties and Species by Natural Means of Selection."

MR. A. E. SHIPLEY, F.R.S., was elected president of the Association of Economic Biologists, which held its sixth annual meeting at University College, last month.

ON May 12 Professor F. T. Trouton began a course of two lectures at the Royal Institution on "Why Light is believed to be a Vibration" and "What it is which Vibrates." The Friday evening discourse on May 15 was delivered by Dr. H. T. Bulstrode on "The Past and Future of Tuberculosis," and on May 22 by Professor J. C. Kapteyn on "Recent Researches in the Structure of the Universe."

THE Croonian Lectures before the Royal College of Physicians, of London, will be delivered June 18 to 30, by Dr. A. E. Garrod, on "Inborn Errors in Metabolism."

THE German emperor has presented Professor Dörfeld, head of the German Archaeological Institute at Athens, with a sum of \$1,000 for the purpose of starting excavations on the site of the ancient Pylos.

E. C. PARKER, assistant agriculturist at the Minnesota Experiment Station, will sail on June 30 to become expert adviser to the government officials of Manchuria. With W. H.

Tombave, now connected with the University of Pennsylvania, he will be employed in instituting modern methods of agriculture in Manchuria.

MR. ROY C. ANDREWS, of the department of mammalogy of the American Museum of Natural History, has gone to Vancouver Island for the purpose of spending several months at the whaling stations on that coast. His work will be the securing of photographs, notes and measurements, which will furnish the data for a preliminary study of the Pacific species of whales.

MR. V. STEFANSSON, the ethnologist, who spent the winter of 1906-7 among Esquimaux in the region of the delta of the Mackenzie River, is preparing to start for the mouth of the Coppermine River, about 460 miles east of the Mackenzie, to spend another year among the natives.

MR. C. G. ABBOT, director of the Smithsonian Astrophysical Observatory, has left Washington for Mt. Wilson, near Pasadena, California, where he will continue observations, conducted for a number of years both in Washington and in California, on the amount of heat received on earth from the sun.

PROFESSOR GEORGE P. MERRILL, head of the department of geology of the United States National Museum, has gone to Coone Butte, Arizona, to be present at a number of deep borings to be made in the so-called Canyon Diablo crater, the cause of which has been a puzzle to geologists ever since it was brought to their attention. This crater-form depression in the desert is nearly three quarters of a mile across and about six hundred feet deep. Some men of science have believed it to be an extinct volcano and others, to be the record of the impact of a huge meteor which struck the earth centuries ago. Professor Merrill made a study of the depression last year, and in drawing conclusions upon the evidence brought back, he stated: "This, of course, absolutely precludes the formation of the crater by any deep-seated agency, and I have been forced to consider an origin by impact of a stellar body." The present borings in search of a

buried meteor or meteoric irons and other phenomena may furnish additional material to account for its origin.

THE Magnetic Survey yacht *Galilee*, chartered by the Carnegie Institution of Washington and under the command of W. J. Peters, returned to her home port, San Francisco, on May 22, after an absence of nearly three years. The total length of the cruises traversed in the Pacific Ocean during this period is about 65,000 miles. This closes the ocean magnetic work for the present until the construction of a vessel specially adapted for the work has been completed. Plans for the new vessel are now being prepared by Henry J. Gielow, naval architect and engineer.

DR. W. J. HOLLAND, the director of the Carnegie Museum, has completed the installation of the cast of the *Diplodocus* presented by Mr. Andrew Carnegie to the German emperor. It stands in the Lichthof of the Zoological Museum at Berlin and occupies the entire west side of the great room. On May 15 Dr. Holland went to Paris to install a similar replica in the National Museum in the Jardin des Plantes. While in Berlin Dr. Holland attended the sessions of the International Anatomical Congress. On May 5 he addressed a meeting of the *Gesellschaft Naturforschenden Freunde zu Berlin* and on May 13 a dinner in his honor was given, at which the cultus-minister and the heads of all the departments of the university and of the various learned societies in Germany were present by invitation.

WE learn from *Nature* that the president of the Board of Trade has appointed a committee to prepare a program for the consideration of the delegates to the International Conference on Electrical Units and Standards to be held in London in the ensuing autumn, and to make arrangements for the reception and assembly of the delegates attending the conference. The members of the committee are Mr. G. R. Askwith, K.C.; Sir John Gavey, C.B.; Dr. R. T. Glazebrook, F.R.S.; Major P. A. MacMahon, F.R.S.; Major W. A. J. O'Meara, R.E., and Mr. A. P.

Trotter. Mr. M. J. Collins, of the Board of Trade, will act as secretary to the committee.

THE members of the committee appointed to arrange for Germany's participation in the International Congress on Tuberculosis that is to meet in Washington next September include Victor, Prince of Hohenlohe and Count von Lerchenfeld; Baron von Knesebeck; Dr. Abb, secretary of the civil cabinet of the emperor at Berlin; Dr. Bumm, president of the Imperial Board of Health, and Professor Dr. Schjerring, general chief of the army sanitary corps. Dr. von Bethmann-Hollweg, the president of the committee, is the imperial secretary of the interior. Ernst von Mendelssohn Bartholdy, of the banking house of that name, and a member of the Prussian Diet, is the treasurer. Besides the members of official rank the list contains the names of many eminent men of science, including those of Dr. Robert Koch and Professor von Behring.

THE tablet in honor of Dr. Horace Wells, discoveror of anesthesia, which was sent to this country from Madrid by the Spanish Odontological Society, has reached Hartford by way of the Spanish minister at Washington. The memorial is composed of a silver plate surrounded by a wreath of white metal showing laurel leaves on one side and the oak on the other, with laurel berries in white and acorns in gilt. Above the plate is an ancient lamp with its light burning. The tablet is thirty-three inches by two feet. It bears the following inscription: "The Spanish Odontological Society to Horace Wells. Madrid, January 14, 1907."

WE learn with regret of the death of Dr. Heinrich Maschke, professor of mathematics in the University of Chicago, at the age of fifty-five years.

M. ALBERT DE LAPPARENT, the eminent French geologist, has died at the age of sixty-seven years.

WE regret also to record the death of Dr. K. Möbius, professor of zoology at Berlin, at the age of eighty-three years.

THE U. S. Civil Service Commission announces an examination on June 17 to fill two, and possibly three, vacancies in the position of medical interne (male) and one vacancy in the position of medical interne (female), at \$600 per annum each, with maintenance, in the Government Hospital for the Insane, Washington, D. C., and vacancies requiring similar qualifications as they may occur.

TABLES at the laboratory of the United States Bureau of Fisheries, at Beaufort, North Carolina, will be available for the use of investigators after July 1. Requests for further information should be addressed either to the Commissioner of Fisheries, Washington, D. C., or to the director of the laboratory, Beaufort.

THE public opening of the Museum of the Staten Island Association of Arts and Sciences at the Borough Hall, St. George, Borough of Richmond, took place on Saturday afternoon, May 23.

THE provision of a Pasteur Institute for Burma is said to be now assured, though some little time must elapse before the work can be started.

WE learn from the *Journal* of the American Museum of Natural History that the museum has secured as a loan exhibit the series of eight paintings of Mt. Pelé, Martinique, made by the late Professor Angelo Heilprin of the Philadelphia Academy of Natural Sciences and Yale University. Professor Heilprin visited Martinique during the eruptions of 1902 and 1903, first as the delegate of the National Geographic Society and afterwards on his own account. The paintings now at the museum were made from sketches, photographs and other studies in the field and are valuable not only from an artistic point of view, but also from their giving a record of the impressions of an observer who was a scientist as well as an artist. The paintings have been installed in the lobby of the central hall of the second floor.

UNIVERSITY AND EDUCATIONAL NEWS

THE public bequests announced under the will of the late Mr. T. Webb include £5,000.